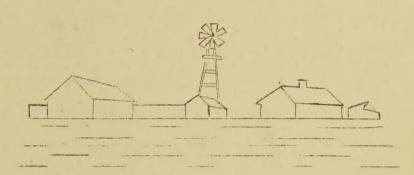
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UNITED STATES DEPARTMENT OF AGRICULTURE Bureau of Agricultural Economics

HAMILTON COUNTY, NEBRASKA MEDICAL AID ASSOCIATION, Hamilton County, Nebraska

By
A. H. Anderson
Social Science Analyst



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Lincoln, Nebraska November, 1945 ESTABLISH TO THE PARTY BALLIES OF THE

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# HAMILTON COUNTY MEDICAL AID ASSOCIATION, Hamilton County, Nebraska

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### INTRODUCTORY

### Rural Medical Care Problems

War has aggravated the problems of rural health. War meant a heavy drain upon rural health facilities which were already inadequate in many places. Physical and mental handicaps among rural youth of military age have been more numerous than were expected. Out of this new knowledge during a national crisis has emerged widespread concern over the problems of rural health.

There is a wide gap between preventive and corrective medical science and its application. Adequate corrective steps have not been taken by most communities. Conditions revealed by the war are arousing leaders to search for practical solutions. These must take into consideration the principles of the medical profession and the principles of democracy, and they must be acceptable to farm people, if progress is to be made. In view of the importance and complexity of rural health problems, national agricultural leaders recently initiated six experimental grouphealth programs to gain experience that would guide communities in meeting rural health needs in the postwar period. One of these experiments took the form of the, Hamilton County, (Nebraska) Medical Aid Association. In selecting the counties for the experiment the following critera were observed: 1/

- 1. Existence of an active County Planning Committee
- 2. Known local interest in medical care needs
- 3. Rural county must be typical
- 4. Farm income approximately same as in State as a whole
- 5. Medical, dental, and hospital facilities reasonably accessible to all farm families in county or area
- 6. Existence of receptive attitude on part of professional groups
- 7. Existence of full-time local public health unit desirable

This statement undertakes to summarize some of the socio-economic aspects of the experience in Hamilton County for the first year of the Medical Aid Association - September 1, 1942 to August 31, 1945 (the only full year of operation). It is based upon data from records of the Association, an analysis of the records of 53 member families, and interviews with officials, doctors, and other local people.

<sup>1/</sup> Interbureau Coordinating Committee on Post-Nar Programs, USDA, March 1942, "Experimental Rural Health", p. 5.

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To obtain information regarding the expenses incurred for medical care apart from the cooperative program, a mail survey of former members was made in March 1945, covering the 1944 calendar year. An appendix contains several tables for students who would like to analyze the data further.

### Medical Facilities - Hamilton County, Nebraska

Earlier community health work. - Before the initiation of the experimental health program in Hamilton County, the FSA sponsored a group medical program which provided medical care for 120 or 130 families. Average annual cost per family was \$33. The State provided a limited amount for indigent patients. Hamilton County has no full-time health department or full-time nurses.

Hospital Facilities. - Hamilton County has one hospital, located in the county-seat town of Aurora. The hospital, when the Association was operating, was a three-story frame structure with 16 beds. A larger hospital has since been equipped. Adjoining counties (Hall, York, and Adams) have larger towns, with more extensive hospital facilities. Farm families in the eastern, western, and southern parts of the county, therefore, are near the hospitals in York, Grand Island, and Hastings. Trade territories of those cities extend into Hamilton County, and many of the farm families have traditionally used the hospital facilities in these cities. The natural area of the Aurora hospital extends from an irregular line running north and south about 8 miles west of Aurora to an irregular line running north and south about 7 miles east of the town (figure 1). The old hospital in Aurora had an operating room, private rooms, and nursing and technical services. All types of minor hospital care were rendered and ordinary surgery was performed. More difficult cases were referred to larger hospitals.

Physicians. - In 1942 and 1943 there were 7 physicians in the county, 2 of whom performed surgery in addition to general practice. Four of these physicians practice in Aurora and one each in Giltner, Hampton, and Marquette. One Aurora physician operates the hospital. All physicians in the county participated in the Health Association during the period studied.

Dentists. - There were five dentists in Hamilton County during most of the period, one dentist having joined the military forces early in 1943. Four practiced in Aurora and one in Hampton.

Druggists. - The county has four drug stores with registered pharmacists.

Three of these are located in Aurora and one in Hampton.

Health facilities in the county have been relatively stable, with very moderate turn-over of professional personnel. This has resulted in rather definite patterns of professional relationships and rather stable community ways.

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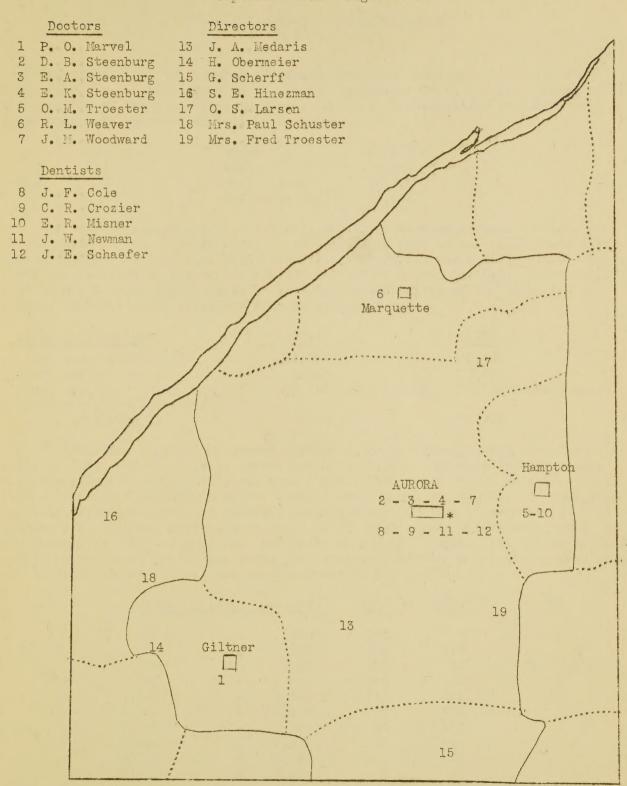
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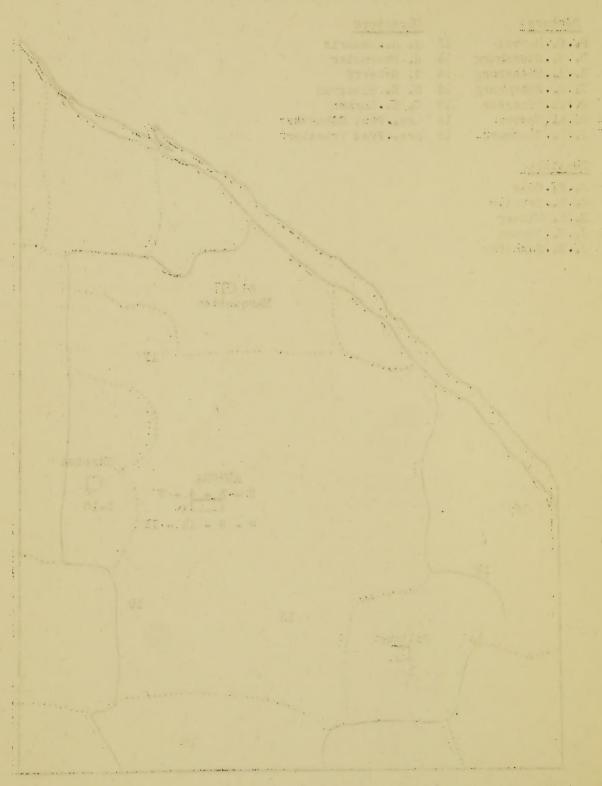


Approximate hospital area

Community areas

Hospital \*

Figure - 1 -



# SOCIAŁ AND ECONOMIC CHARACTERISTICS OF HAMILTON COUNTY

Hamilton County is situated in eastern Nebraska about 100 miles from the Missouri River and 50 miles from the Kansas boundary. It is a rural county, with three-fifths of the population on farms. Farming is diversified and more than seven-tenths of the farm acreage is in crops.

Wheat	72,488
Corn	74,549
Other crops	70,808
All other land	35,434

The 1940 Census reports 1,623 farms, and 1,766 were enumerated in 1930. Average size of farm was 208 acres in 1940 while in 1930 it was 191. (Preliminary Census figures for 1945 show 1,487 farms and the average acres 226). Value of farms changed from an average of \$20,300 in 1930 to \$7,600 in 1940. Three out of five farm operators were tenants in 1940, and seven-tenths of the farm land was rented. The following livestock numbers were reported:

Type of livestock	1940	1930
Cattle and calves	17,291	21,793
Cows and heifers	8,342	7,892
Hogs and pigs	9,658 (over 4 mos)	33,938 (over 3 mos.)
Sows and gilts farrowing		
or to farrow	2,866	10,793

Distribution of farms by income (products, sold, traded, used) showed a wide range in 1939, but the average income was only \$1,209. One-third of the farms had incomes under \$600, while less than 6 percent reported \$2,500 or more. This differs sharply from 1929, when the average farm income was \$3,281. In that year slightly more than 4 percent reported incomes under \$600 and 45 percent reported incomes over \$2,500. Several crop years in the 1930's were unfavorable, and the low incomes in 1939 followed upon the heels of a long drought. The following distribution of farms, by income, shows the comparison between a relatively good crop year and one of the several unfavorable years in the 1930's:

	Incom	.e g	group	S	(dollars)	1939	1929
	Under			_	250	142	8
	250			1000	399	152	23
	400			-	599	239	46
	600				999	448	112
1	000			-	1,499	312	222
	500			-	2,499	228	528
	500			-	3,999	56	466
,	000			-	5,999	17	181
,	,000			100	9,999	8	98
	000			146	19,999	6	34
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Average farm income in Hamilton County declined 63 percent from 1929 to 1939, while in Nebraska the decline was 48 percent.

Total population of the county declined from 12,159 in 1930 to 9,982 in 1940 - a decline of 18 percent. Rural farm population declined 20 percent in the 10-year period. From 1920 to 1940 the total population declined 25 percent in Hamilton County; decline in the rural population in Nebraska for the same period was 10 percent. Estimated Hamilton County population in November 1943 was 8,261, a decline of 17 percent since 1940.

Age composition of the total population of the county in 1930 and 1940 indicates an aging population. Broad age groups are as follows:

	1940		1930
	No.	Pet.	No. Pct.
Under 15 years	2,478	24.8	3,790 31.2
15 - 44 years	4,093	41.0	5,343′ 44.0
45 years and over	3,411	34.2	3,012 24.8

Figure 2 presents age composition in more detail indicating where, in the population pyramid, the differences are greatest.

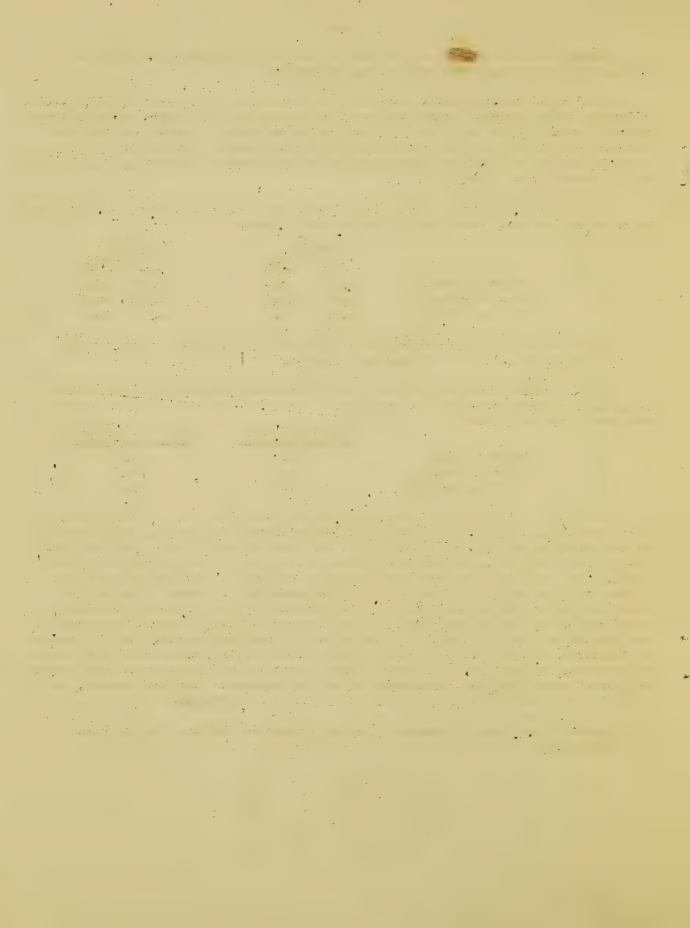
Age distribution of the 1940 rural farm population in Hamilton County differed only slightly from that of Nebraska. Percent of the population in broad age groups are as follows:

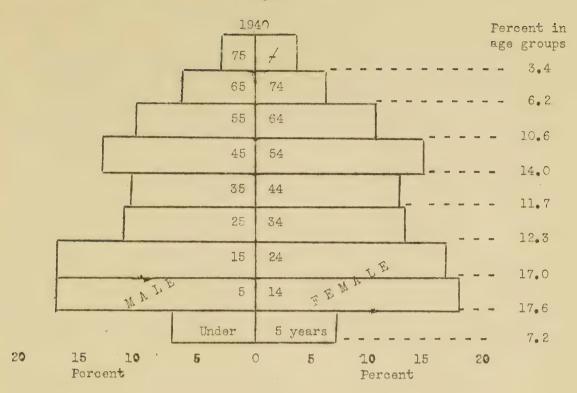
	Hamilton County	State of Nebraska
Under 15 years	. 26.9	28.7
15 to 44 years	43.1	45.2
45 years and over	29.9	26.1

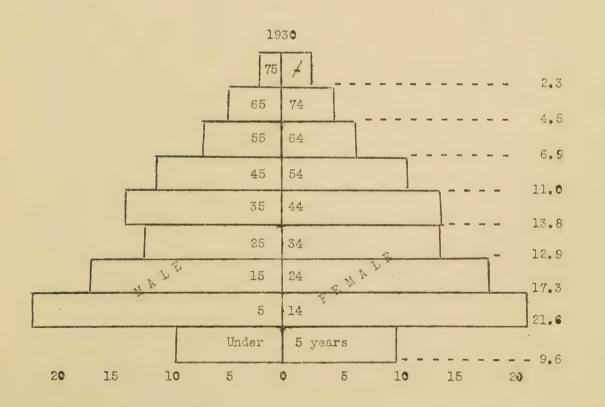
Total population in the county, 14 years old and over, was 7,701 in 1940. Forty-six percent of these persons (3,532) were in the labor force, and 89 percent of the labor force (3,145) was employed. More than three-fifths (1,952) was employed in agriculture. Eighty-five percent of the labor force in the county were males. More than 98 percent of those actually employed in agriculture and two-thirds of those employed in other occupations were males. Seven in ten of the males and 56 percent of the females in Hamilton County, age 25 years and older, had 7 grades or less of schooling. Fifteen percent of the males and 25 percent of the females of that age group had been graduated from high school. Only 3 percent of the males in this group had been graduated from college, and about 2 percent of the females. Percentage of all rural farm persons in the age group having 8 grades or less of schooling, and percentage having been graduated from high school, are about the same in Hamilton County and in the State of Nebraska.

Slightly less than 6 percent of the population in 1940 was foreign born (583 persons). These were distributed as follows:

Born	in	Swoden	211
Born	in	Donmark	153
Born	in	Germany	107
Born	in	Russia	55
Born	in	other foreign	
ec	unt	crios	57







Age and sex composition of total population in 1940 and 1930 in Hamilton County, Nebraska

Figure - 2 -

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Of the 3,267 housing units reported in 1940 357, or 11 percent were vacant. Of the 2,910 occupied units 719 needed major repairs; this is about 25 percent of the units. The State of Nebraska, by comparison, showed about 7 percent vacant, and of the occupied units 20 percent needing major repairs. Of all rural farm housing units in the county slightly more than one-third were occupied by owners, 54 percent by tenants; 12 percent were vacant.

# DESCRIPTION OF THE HAMILTON COUNTY MEDICAL ASSOCIATION

### History and Development of the Program

Local community leaders and personnel from the Extension Service, Agricultural Adjustment Administration, Farm Bureau, Farm Security Administration, and the Bureau of Agricultural Economics began discussions of the local rural health problems early in 1942. It was agreed that a need existed for some type of group health program to meet the medical care needs in the county more adequately. Little information was available to guide these local leaders in perfecting such an organization.

The State Planning Committee, having requested that a Nebraska county be included in the six experimental counties in the United States, appointed a subcommittee to consult with local leaders in Hamilton County. Two meetings were held, as early as January 1942, and members of the State subcommittee worked with the local people in developing the Hamilton County plan. The documents and agreements were prepared by the lay committee. At a meeting, in February 1942, an executive committee was elected, consisting of five farm people. This committee then met with the doctors to work out the details of the program, as it was to be presented to the farm people. These were consistent with the outlined procedure for the establishment of the Interbureau Experimental Medical care Program of the U. S. Department of Agriculture.

At a meeting of the Hamilton County Agricultural Planning Committee held in Aurora, Nebraska on June 10, 1942, to discuss the proposed medical care program for farm families in Hamilton County, a resolution was adopted establishing a "formal association on a non-profit basis to promote and operate an experimental medical care program". Seven members, representing the seven planning districts in the county, were elected as organizers. These persons were "authorized to adopt formal articles of association and by-laws and establish an association for the purpose of obtaining medical care for its members". The Board of Directors of the proposed association were "authorized to apply for a grant from the U.S.D.A. Farm Security Administration". It was stipulated that the proposed association would be authorized to begin operation when a total of 500 families had deposited their proportionate share of their income in the Association treasury.

Application blanks, income statements, and informational leaflets were supplied by doctors and dentists for use in signing up members in the Association. Shortly thereafter it become apparent that the program would get underway very slowly unless further assistance could be obtained. A request for assistance was made to the State Extension Service and the Regional and State office of the F.S.A.

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On April 16 a field man was assigned by F. S. A. to assist the County Planning Committee and the executive committee with organization work. Methods to be used were personal contact by members of the Planning Committee, the field man, the other interested persons, and group meetings at selected points in the county. About 500 member families had been signed by September 1, 1942, and this was deemed a sufficient number to put the program in operation.

Publicity and announcements of group meetings were distributed by the county papers, by telephone line calls, and by word of mouth. The papers carried publicity to inform the rural people about the program from time to time, and the plan was explained to county commissioners, business groups, and some other organizations in the county. Considerable, though unsystematic, use was made of newspaper space for education after the program was under way. No systematic program of community group discussion of preventive and corrective medicine was developed. Members were inclined to feel that if they paid the fees and received medical and dental care, the program had been a success. More vital participation of members would result from sound educational methods. Leaders who sponsored the organization were under some pressure to qualify the Association for the federal grant before June 30. This, together with a general lack of experience with group. health techniques, probably accounts for the limited emphasis on this point.

### Organization, Structure and Function

Basically, the group-health program in Hamilton County is democratic. In theory at least, it provides for self-control of the program by the participating farmers. It provides protection for the prevailing standards, ethics, and practices of physicians, surgeons, and dentists, through autonomous and voluntary participation of the professions. It utilizes various types of guidance and safeguards based upon broader experience and knowledge.

Broad Features. - The program operates through an incorporated association, with a voluntary membership of farm families who were eligible to participate in the services offered. A Board of Directors, elected by the membership, had full power in the appointment and supervision of the paid executive. The Association operated under a set of by-laws which was consistent with those of reputable, unofficial, and non-profit health and welfare organizations. The stated purposes and powers of the Association were as follows:

"The objects and purposes of this Corporation are to engage in any activity involving or relating to the securing for its members of medical, surgical and dental treatment or services, and any drugs, nursing, or hospitalization incidental, necessary or convenient thereto, and to the performing of any activity not in conflict with the laws of the State of Nebraska which will promote the health of its members, including the financing of such activities. This Corporation shall have all the powers, privileges and rights necessary or convenient for carrying out the purposes for which it was formed, or any of them."

Extensive research and utilizing the knowledge and experience of the professions, private organizations, and the Federal Government, pointed the way to the financial operation of the program. A grant of Federal funds was made to the Association, which was not a Federal Agency or subject to any political body other than reasonable guarantees assuring that funds would be used for the specific purposes of the grant, and that efficiency and integrity would be maintained.

Each member-family paid 6 percent of the family net cash income (minimum payment \$10), for the health services provided by the Association. The difference between this amount and the total average cost per family of \$57 was charged against the Federal grant. Families with net cash income of \$950 or more were required to pay the \$57 in full. Net cash income was based upon records and estimates for the year 1941. The distribution of funds, derived from family contributions and Federal subsidy (a total of \$57 per family), was as follows:

	Per family
General practitioner care	\$22.00
Surgical and Specialist care	6.00
Hospitalization	10.00
Drugs	5.00
Equalization fund	3.00
Dental care	- 7.00
Administration	4.00
	\$57.00

These allotments were divided into 12 equal parts, and for all services one part was made available each month for the payment of charges for services during that month. If the funds allotted for any of the services were not adequate to make payment in full on the charges submitted for that service, all bills were proportionately reduced to bring their total within the total of the funds available in any fund.

The program was developed with the cooperation of the organized medical and dental profession. They set up their own fee schedules, which were submitted to the Board of Directors. Fee schedules were incorporated in written agreements between the professional groups and the Board. Each professional group selected its own reviewing committee, which was given authority by the directors to approve or disapprove professional bills.

Important features of the program include:

- 1. Free choice of doctor and dentist
- 2. Full cooperation and collaboration with the State Department of Health
- 3. Cooperation and joint planning with unofficial health and welfare agencies
- 4. Hospital and laboratory facilities
- 5. Surgical and specialist care
- 6. Drugs
- 7. Certification of the income status of participating members
- 8. Authority of Board of Directors to suspend or revoke membership for just cause.

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Board of Directors. - The duties and powers of the Board of Directors, subject to the by-laws, included (a) to pass upon qualifications of members and cause to be issued certificates of membership, (b) to prescribe application and certificate forms, (c) to select and appoint agencies or employees and prescribe duties and compensation, (d) to borrow money and issue notes and other instruments, and to mortgage, assign, or otherwise dispose of promissory notes received from its members, (e) to prescribe, adopt, and amend rules and regulations subject to approval of the Regional Director of FSA, (f) to make regulations and enter into agreements with doctors, dentists, hospitals and other agencies, (g) to provide for annual audit of books and accounts, (h) to require all employees charged with custody of funds to give adequate bond, (i) to select one or more banks to act as depositories of Association funds, and (j) to certify physicians, dentists, and other persons as "ineligible" to serve the Association because of lack of cooperation with its policies.

The Board of Directors is composed of seven members - five men and two women. Average age is 47. All are farm people, and all were either owners or part-owners. Their farm units range from 200 acres to 480 acres, averaging 356 acres. Average contribution to the Health Association was \$40, as compared with the \$25 average of the 53 sample families. Thus the economic status of the directors was considerably higher than the general average of members. Generally, the board members were community leaders, active in various rural groups. Six of the directors had children and young people 9 to 21 years of age. Average size of family among the directors was 4.4.

Apparently the board was efficient in the discharge of its duties as outlined in the by-laws. These did not include community educational activities. Contacts between directors and member-families, and systematic public relations activities were very limited.

Managor. - During the period covered in this study, four managers served the Association. Thus the board did not have the benefit of increasing experience and competence in that position. The importance of having a well-qualified manager, with enthusiasm for the cooperative program and with skill in public relations, cannot be overestimated. It would seem especially needed in the early years of such an association.

### ANALYSIS OF MEDICAL SERVICES AND COSTS

### Summary of Association Health Services, September 1942 - August 1943

A dollars- and-cents evaluation of services is, of course, a very limited treatment of this subject. But it is important to consider the various types of service in quantitative terms - cost, number of physicians calls, days of hospitalization, etc. A summary of health activities has been made, covering the period from September 1942 to August 1943, inclusive. This is presented in terms of monthly averages, and includes the entire membership of the Association. Because of the lapse of time it was found impracticable to obtain detailed ractual information from members. All data were obtained from the Association records.

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State of the state Average membership during the year for which data were summarized was 465 families, with 2,028 persons. An average of 380 persons received physician's care each month; five received surgical care; 78 received dental care; 17 received hospital care; 270 were supplied with drugs. The following summary gives detailed breakdowns of these health services.

# HEALTH ACTIVITIES OF THE MEDICAL ASSOCIATION September 1942 - August 1943

Mor	thly Average		Monthly Average
Member families Persons in families	465 2,028		
Physicians		Dentists	
Persons served	380	Persons served	. <b>7</b> 8
Home calls, day	31	Under 15 years	5.00
Home calls, night	5	Extractions	13
Office calls	641	Peredental	2
Hospital calls	8	X-Ray	8
Deliveries	5	Examination	11
Consultations	4 62 120	Prophal	6 . 1
Approved bills Amt. Paid	\$2 <b>,17</b> 0 863	Past. Oper.	26. de
Percent paid	40	15 years and ove	99
16% Collo pard	#0	Extractions	112
		Peredental	8
		X-Ray	33
		Prophal	15
Surgeons		Examinations	18
Tonsillectomies	9.0	Past. Oper.	4
Appendectomies	.8		
Fractures	1.5		
Gynecological	1.4		
Other	16.0	Approved bills	\$375
Persons served	5.2	Amt. Paid	254
Approved bills	\$392	Percent paid	68
Amount paid	238		
Percent paid	59.0		
Druggists		Hospitals	
Persons served	270	Persons served	17
Prescriptions	430	Days	97
Approved bills	\$297	Operating room	10
Amt. Paid	φ297 196	Amt. Paid	\$481
Percent paid	66	Percent paid	φ461 80
Tot cour barn	00	10100Ht pard	00

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It will be seen that an average of 19 percent of the persons in member families received physician's care, monthly. Office calls averaged more than 16 per family during the year, and home calls averaged nearly one per family (table 1).

An average of 5.2 persons received surgical care, per month, averaging \$75 for each case (table 2).

Dental care was given to 78 persons per month, average value being about \$5 to each person. The program made no provision for fillings or dentures, and much of the work consisted of extractions, X-rays, and examinations (table 3).

Seventeen persons received hospital care, per month, with an average value of \$28 per person - a total of 97 days of hospital care, per month (table 4).

An average of 270 persons were supplied with drugs, monthly. Individual prescriptions from doctors averaged 430 per month (table 5).

Monthly figures of membership and persons served are shown in tables 6 and 7. Approved charges per family are averaged by months (table 7), they ranged from \$6.38 to \$9.88. The average monthly charges per member family amounted to \$7.96, or a total of \$95.52 for the 12 months. All approved bills totaled \$44,506.74, for the year, and this was "scaled-down" to \$23,186.41 (52 percent of the total). Scale-down varied by months as activity fluctuated, ranging from 42 percent to 62 percent of all approved charges. The individual types of service varied even more by months, in percentage of approved bills paid.

	Low	High
For physician's care	29%	45%
For surgeon's and specialist	8	
care	42	100
For dental care	49	100
For hospital care	57	100
For drugs	49	96

Analysis of Association Fecords of 53 Sample Families, Sept. 1942 - Aug. 1943

A random sample of 10 percent of the families, in the Association from September 1, 1942 to August 31, 1943, was drawn for analysis, to bring one phase of the study down to more managable proportions. 2/Socio-economic characteristics as well as services rendered, were included in the study. All health services provided by the association - general practice, surgery, dental care, hospital service, and drugs - are summarized by individual families. Age composition and economic status of individual families are also summarized, and relationships between services and different categories of families were studied.

<sup>2/</sup> From an alphabetical list, one-tenth of the 532 families were selected by drawing number 1, number 11, number 21, etc.

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Socio-Economic Characteristics. - Households in the sample ranged in size from 2 to 8 members, with an average of 3.9 persons per household. Heads of households ranged in age from 25 to 69 (table 8). There were 202 persons in these households, and the age distribution is shown in figure 3. Because of the small number of persons in the sample detailed break-downs are erratic, but the pyramid shows the broad features of the composition of the families. Table 9 shows the age-group totals and percentages. If the sample is representative the member-families are younger than the general population (table 10).

About one-half of these families had net cash incomes of more than \$350 the rest showed less than this amount or a net minus. Operators with less than 200 acres of land in their units were evenly divided between more than \$350 and less than this amount. Thirty-nine of the 45 operators reporting tenure status were tenants (87 percent) and six were owners or part-owners. Tenure status of the rest was not learned. Comparing this with the distribution of all farm operators in 1940 it appears that Association membership was drawn largely from the tenant groups. (The 1940 Census showed tenants 62 percent and owners 28 percent). Eighteen of the members (35 percent) were FSA borrowers, whereas less than 10 percent of the operators in the county were FSA borrowers. Average net cash income for all sample families was \$445. This suggests that low income families of the county are over-represented in the Association (table 11). Average net income per household, when converted into income per person, shows \$117 per capita. Households with five or more members were well below this average, being \$65 per person (table 12). Gross and not cash income appear to be closely related. This is evident as average gross income is computed in relation to net income groups, as well as when average not income is computed by gross income groups. Variations from the relationships may easily be due to chance, because of the limited number in individual categories (table 13).

Health Services. - The total of approved bills for all health service to the 53 sample families amounted to \$4,554 - an average of \$85.92. Adding the \$4 set aside for administrative cost this approximates (90 per family. The most important service from the standpoint of number of families served and percentage of total of approved bills, was general practitioner service. Eighty-seven percent of the families in the sample received such service, and 63 percent of the total amount of bills is classified under general practice. From the standpoint of number of families receiving service the other types of care, in the order of number of families involved, are: drugs (77 percent), dental care (55 percent), hospital care (30 percent), and surgery (7.5 percent), Figure 4. From the standpoint of percentage of total amount of bills approved, the other types of care, in the order of book value, are hospital care (13 percent), dental care and drugs (8.4 percent each) and surgery (7.2 percent). It should be noted, however, that approved bills to the Association were scaled-down, to equal the monthly allotment for each type of service. The scale-down varied from month to month according to the degree of activity, and porcentago of approved bills paid by the Association was averaged for the 12 months. The average is shown by individual type of medical service as listed:

General practice averaged 40 percent Surgical practice averaged 59 percent Dental care averaged 80 percent Brugs averaged 66 percent description averaged 80 p

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Ago composition of 53 families, Hamilton County, Nebraska 1/

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Age
                      Groups
                              ≠
74
                    75
                    70
                              69
               111
                                 11
            999999
                    50
                              54
                                 . 1111111
                    45
                              49
             11111
                    40
                             44
                                 1111111
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                    35 -
                             39 11111
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              1111
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                             29 111111111111
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                    5
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7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
                   Under 5
                                 1999999999
      Male
                                    Female
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1/ Does not include eleven persons, age unknown.

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# Percentage of Member Families (53) Receiving Each of Five Services

# Percent of Families

# Type of Service

General Practice

Surgery 7.5% ::::::

Hespital Care 50.2% Hillininininini

21 175 Dental Care

Drugs

Percent of Total Approved Bills (\$4,554) for Five Types of Health Service to 53 Member Families

# Percent of Total

# Type of Service

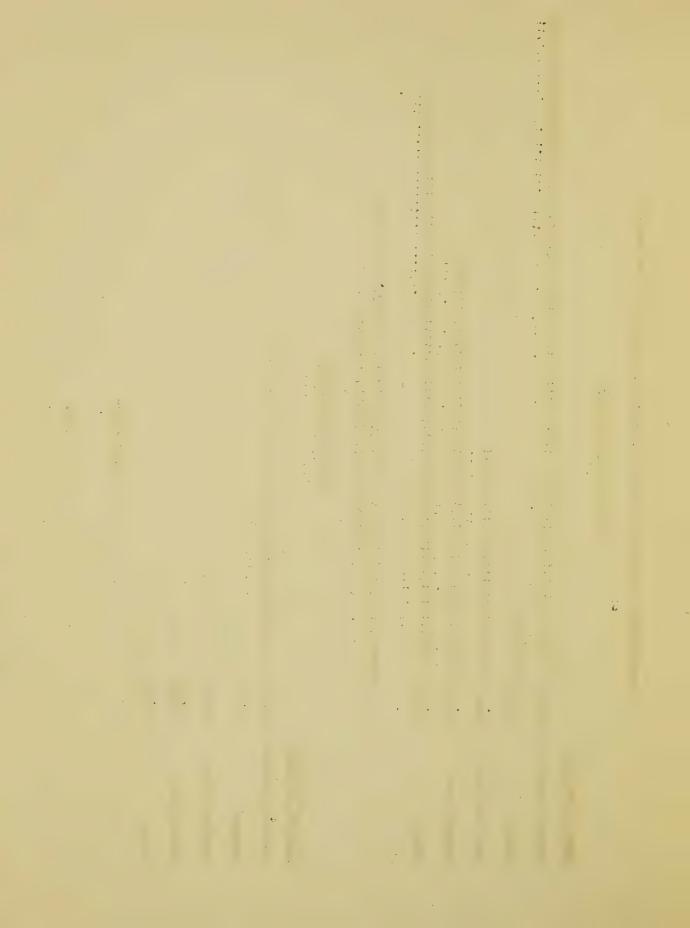
General Practice

7.5% \$\$\$\$\$\$

Dental Care 8.4% every \$

Drugs 8-1% \$55555

Figure -4-



Thus the actual average cost per family of the health services to the Association was \$57 rather than the 590 shown above. From the standpoint of the insurance principle, both of these averages may have significance.

Forty-nine of the 53 sample families received some type of health service through the Association program during the year studied, and 42 of these received more than their contribution to the Association. The approved bills for service to the 49 families averaged nearly \$93. Four families (7.5 percent) received no service; 10 (19 percent) received less than \$30, and 23 (43 percent) received more than \$75 in service (table 14).

Average contribution to the program by member families was \$25,28, ranging from the minimum of \$10 to the maximum of \$57. Distribution of the families by amount of contribution to the program indicates the broad net cash income groups in the sample of 53 families. Thirty-eight, or 72 percent, of the families contributed less than \$31. This means that 7 in 10 had less than \$500 of net cash income. Twenty-five, or 47 percent paid less than \$21 - indicating a net cash income of less than \$350. There is some evidence that accumulated medical-care needs were concentrated, somewhat among the lowest income families (table 15). The exceptionally high average in the last group (\$51 - \$57) is accounted for by two expensive cases included in this group of 6.

Health service in the form of general practitioner care averaged \$54 for all families (table 16). Ten families received more than \$100 in service and 12 received less than \$26. The 24 families in the two lower income groups show higher-than-average cost for this type of care. Surgical care averaged \$6 for all families (table 17), hospital care averaged \$11 (table 18); dental service and drugs each averaged \$7 (tables 19, 20). The 21 families in the two lower income groups show higher-than-average cost for drugs. Number of families receiving different types of care was as follows: general practice 46, surgery 4, hospital 16, dental 29, and drugs 41.

When the average scale-down for the different services to all member families is applied to the sample families receiving care, the actual payment for service averaged as follows: (for convenience it is compared directly with average value of approved bills).

Type of Service	Familios	Average scaled-down cost in dellars	Average value in dollars
General practice	46	\$24 <b>.</b> 92	\$62 <b>,</b> 30
Surgery	4	44.38	82,20
Hospital	16	25.33	36.88
Dontist	29	10.64	13.34
Drugs	41	6.16	9.34
All sorvices	53	ŵ56 <b>₊71</b>	\$86 <b>.</b> 00

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# Medical Care and Costs in 1944

It was thought advisable to get information about medical care experience of these families before the organization of the Hamilton County Medical Aid Association. This proved to be impracticable because of the lapse of time and the unreliability of memory. The calendar year 1944 was thought sufficiently recent, at the time of the study, to promise greater accuracy.

How much was spent for medical care, by those families in 1944? To obtain a picture of the costs of medical care, a survey was made of a group of former members of the Hamilton County Medical Aid Association, in March 1945. This mail survey was conducted by the Farm Security Administration. A simple but carefully prepared questionnaire was returned by 29 percent of those receiving it (see appendix). Of the 127 families responding 98 percent had incurred expenses for medical care during the year. Average expense incurred for health services was \$\frac{1}{2}\$15 per family (total \$\frac{1}{2}\$15,880) or \$\frac{1}{2}\$1 per person. The following is a brief summary of the different types of medical care:

	Av. Cost 127 families	Pct. families Incurring expense	Pct. distribution of cost
Gen. doctor's care	\$ 41.11	87	33
Major operations	25.86	18	21
Hospital care	.18.56	26	15
Dental care	24.30	76	19
Drugs	14.58	83	12
All types	125.04	98	100

A few families reporting no medical care responded by returning the questionnaire, but others may have made no return because they had no medical costs. A
substantial number of the returned questionnaires show low medical costs, but
there may be an over representation of families with high costs. Costs of medical
care reported for 1944 by the 127 respondents are higher than average book value of
care to Association members, September 1942 to August 1943 - \$125 and \$96 respectively. Whether "selection" on the one hand or increased farm income accounts
for the difference, cannot be learned from these data. Distribution by broad
"cost" groups is as follows:

	Families included in 127 mail reports (1944 costs)	Families included in random sample of 53 (Med. care 9/42 - 8/43)
Medical care less than \$30	36%	19%
\$30 to \$74	22	38
\$75 or more	42	43

A similar comparison may be made of age composition and size of family in these two groups, as an aid in evaluating the mail-survey responses. It should be noted, of course, that similar social characteristics would not in themselves assure identical medical care experience.

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	Families included in 127 mail reports (1944)	Families included in random sample of 53 (Sept. 1942 - Aug. 1943)
Age Composition		2 2
0 - 12 13 - 21 22 - 50 51 and over	30.4% 17.5 33.5 18.4	34.2% 17.3 38.9 9.5
Size of Family		
2 or less 3 or 4 5 or more	25.7% 41.4 32.1	16.0% 56.6 27.4

According to the data furnished by the 127 families, medical care costs more for older members of the family. The broad age groups account for the following proportions of the total expenses incurred for medical care to the 514 persons in the 127 families.

Age Groups	Pct. of Expenditures	Pct. of Persons
0 - 12	15.5	36.0
13 - 21	12.3	18.5
22 - 50	43 • 2.	33.5
51 and over	28.8	12.1

A larger study of costs of medical care in 1944 was conducted by the F.S.A. in the Dakotas, Kansas, and Nebraska. Tabulation of 551 responses in Nebraska show average costs per family of fill and per capita costs of \$24.40. The 2,261 responses in the four States of the region show similar average costs per family and per capita. These responses represent 52 percent of all mail questionnaires distributed early in 1945, to active standard borrowers in selected counties in each State. The somewhat lower average cost indicated in this survey as compared with the Hamilton County study of former members of the Medical Aid Association may reflect the difference in average income of the two groups. Members of the Hamilton County Medical Aid Association were not all FSA borrowers.

## LOCAL ATTITUDES AND BEHAVIOR PATTERNS

## Members of the Association

Knowledge of objectives and participation. - As the form of voluntary association entered into here is essentially that of a cooperative, it is important to learn how well the members understood what was being undertaken. Moreover, it is necessary to analyze, as far as possible, their attitudes toward the program. Interest is largely a question of knowledge, and the success of such a cooperative enterprise depends mainly upon the intelligent participation of members. An offert was made to obtain a cross section of the attitude and judgment of former members

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(see appendix). Only a small proportion of the interviewed members showed a clear knowledge of the objectives of the program, but a majority seemed to have a fair understanding of its broad purposes. Concepts of mutual aid and cooperation are reflected in the statements. About one-half of the families said that the purpose of the program was to "provide equal medical care to all"; one-fifth thought of the program in terms of lower-cost medical care, and as many others in terms of insurance. About 4 in 10 families said that the program was operated by the directors or the manager. Others were not clear, or understood that the program was run by the doctors or by the county agent. Some of the earlier promotional meetings were called by the county agent. Forty-percent attended no meetings, and nearly half had attended from one to six meetings. Others reported their attendance in general terms as: Few, all, most, many. Strictly educational meetings were not held and most of the meetings attended were held in connection with the development of the program. Periodical letters were sent to members, but no information was gleaned from these families regarding them. There was apparently no general recognition, among members, of responsibility for the program. Most of them said they had sufficient voice in running the association or expressed no opinion. The general idea of the member's place in the program was to pay the dues prescribed and call their doctor when sickness came, or visit his office. Two-thirds said they had had no part in developing the program.

Leadership and Service Area in Health Care. - A sample survey of members indicates the influence of the local doctors. Seven out of 25 members were persuaded to join by their family physician. Very few changed doctors after joining, indicating a high degree of loyalty to the family doctor. Thus the traditional leaders in matters of health have been the local practitioners. An important part has also been played by the dentist and the druggist. In recent years the public schools, F.S.A. and the Extension Service have taken a progressively greater part in health education. One-third of the families reporting on their hospital center before joining the Association named hospitals outside of the county. More than 25 percent reported that they had never had occasion to use a hospital before joining the Association.

Opinions of Members in Regard to Health Services. - Most members reported general satisfaction with the services. Answers to several questions indicate members feel that the money paid in as dues is a good investment. Some constructive criticism was offered but the most common attitude was that they would join again if given opportunity. There were few criticisms of the degree of promptness of the service. Generally the quality of service was said to have been the same as before. Most members, however, said that they received more care under the prepayment plan. Nearly all received all the care they expected, during the first year, and 6 in the 10 said that they had experienced no difficulty in securing needed medical care while in the program.

Opinions of Members in Regard to Adequacy of the Program. - About one-half of the families reporting merely expressed satisfaction with the program. Others offered useful suggestions for improvement of certain features. Several members would like more complete services. Specifically they suggested, unrestricted detail care, broader availability of surgical and specialist care, and more adequate local hospital facilities. On the question of adequacy of the program,

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however, responses ranged from such statements as "limitations were mutually agreeable, to make cost as low as possible", to "O.K. except for limitations on dental care"; "even if cost must be increased a little we would like dental care", and "hospital care should not be limited to the Aurora hospital and surgeon".

Eight in ten members thought that the membership of the Association should have included more people. Responses indicate little thoughtful evaluation of risk and cooperative factors, but a few responses showed some analysis. For example, one respondent suggested enlargement of "membership and territory with more doctors and hospitals" taking part. Another said, "Yes, if the doctors could have taken care of it. People receive more care under prepayment".

Some members suggested curtailment of services, a typical response being "should have cut down amount of services and paid the doctors in full. People overdid the program". On the other hand, many said, in effect, "there should have been full services for any family that needed them and not just what the doctors want to give".

Although 3 in 10 expressed satisfaction with the method of financing and with the basis of figuring dues and paying for services, there was evidently some confusion of thought. Lack of definite opinion or seeming indifference suggested that members generally may not have understood the principle of cooperative action or insurance that was involved. A few members expressed themselves in favor of basing dues upon number of persons in the family or upon a combination of income and size of family. It was not clear, in the latter case, whether or not the idea was a social one of providing favorable terms for larger families. As an indication of the interest of some members, directors cite the attitude of several persons when refunds were made, of 6 month's dues, at the time the program was terminated in 1944. A member said, "I would rather pay \$100 than accept this check", and a few others make similar remarks.

# Directors of Association

The directors had a better opportunity to observe and analyze the functioning of the Association than did the members. Because of their interest in the success of the program and their experience with its practical problems they are perhaps able to evaluate some of the features more objectively.

Coverage. - Membership was confined mainly to low income families during the first year. Theoretically the program was available to all agricultural people in the county, but actually it was limited by the attitudes of local people and physicians. Directors feel that membership should have been 1,000 or more families instead of 500. Some members of the Board believe the Association should have been open to all people in the county.

Risk. - The Association was considered, by the directors to have been selective of high-risk families, during its operation. Both professional and lay people thought that members "ran the program to death". Directors realized, however, that medical-care needs had accumulated during the depression and the drought, and that this was especially true among low-income families.

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Quality of Care - Directors think that standards of medical care were maintained equal to those prevailing before the program was started. They agree that more and earlier care was given and this indicates an actual improvement of health standards.

Area Covered. - The Association confined its operation to the facilities and professional personnel in Hamilton County, though doctors accepted members who lived outside the county. Directors believe that members should have complete freedom of choice among hospitals and doctors, irrespective of county boundries.

Financing. - The fee schedule, based upon 6 percent of family's net cash income the previous year, must be supplemented from other sources in bad years only. Directors believe the program could have been self-supporting or nearly so, after farm income increased, as in 1943 and 1944. This, would assume broad coverage, of course. Some members of the Board feel that it was an error to set up the program for only 1 year. In their view it would require a 5-year period to give the Association a fair chance. Directors recognize that the methods of paying doctors is a technical subject, but they believe that the inducement to medical personnel would be progressively stronger each year.

Preventive Work. - The county had no public health department and the Association had no systematic program of preventive medicine. Directors said that the county had made some effort to bring in a public-health nurse but had not been successful. They did not understand that the cooperative program contemplated preventive medicine.

Education. - A process of health education was set in function with the functioning of the Medical Aid Association. Informal discussions of rural-health problems and prepayment plans has developed an awareness of need for better medical care. There was no formal program of education but directors and other local leaders frequently discussed health care. Although the program of the Association included no specific educational activity, the Board members agree that educational work is important.

Community Participation. - The directors did not think that the communities of the county were well informed about the Association, its objectives, and program. Doctors and some laymen looked upon it as a subsidized low-income program for a small part of the county's population. Some members, on the other hand, did not consider it as such but rather as a method of more systematic and economical health care for all families.

Interest of Directors. - These local people gave a great deal of time to Board meetings for the discussion of administrative details. They felt responsible for the success of the program and made a great effort to maintain it the second year. On the basis of the experience of the first year they undertook to adjust the program and correct its weaknesses. Much time, deliberation, and compromise were required.

## Professional Personnel

Most of the doctors thought the program was too broad - that specified services could not be provided for  $\varphi 57$ . They believe that the members abused the program, and that the doctors should have had more control. The traditional leaders in health - the doctors and dentists - take the view that the culture depends upon its leaders to guard its accepted values. Traditional ways of medical-care are regarded by them as a basic part of the ways of the people. Most of the doctors believe that the practitioner should be free to charge according to ability to pay, and that a prepayment plan should include only low-income families. In an area of highly variable farm income the size of this group would fluctuate sharply from year to year, of course, and such a program could not be stabilized on a self-supporting basis. Thus it is hard to see how this concept could be reconciled with the cooperative insurance principle.

Some of the practitioners favored free choice of specialists and hospitals, but went along with the restricted program the first year, despite the traditional use of facilities outside the county. Other local doctors, on the other hand, were unwilling to take part in a program that included specialists and hospitals outside the county.

## INTERPRETATION AND APPRAISAL

General. - Good medical care cannot be defined in absolute terms. It is relative to the social, cultural, and scientific development of the community. It is the kind of medicine practiced and taught by recognized leaders of the medical profession, in a given time and place. Details of technique find no place in such a definition, but the broad outlines of good medical care have been outlined by Lee and Jones 3/. Good medical care, the authors state:

Is limited to the practice of rational medicine based on the medical sciences.

Emphasizes prevention.

Requires intelligent cooperation between the lay public and the practitioners of scientific medicine.

Treats the individual as a whole.

Maintains a close and continuing personal relation between physician and patient.

Is coordinated with social welfare work.

Implies the application of all the necessary services of modern, scientific medicine to the needs of all the people.

<sup>3/ &</sup>quot;The Fundamentals of Good Medical Care, Roger I. Lee and Lewis W. Jones January 1933.

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A map showing the trade areas in Hamilton County and the hospital-service area of Aurora indicates that this county is not a self-contained unit (figure 1). This assumption is supported by the statements of many local families regarding their own customary dependence upon professional personnel and hospital facilities outside the county. No evidence was found in the Hamilton County Medical Aid program that adequate analysis was made of the situation in terms of the hospital-service area and the relationship of the Aurora hospital and local practitioners to other facilities and specialists.

Apparently no educational work was done with professional personnel when the program was initiated. In other words, there was no common agreement on the objectives of the program. Private interests and views of the professional men were sometimes in conflict, and traditional concepts of medical care were not fully reconciled with the cooperative and social objectives of the program.

The program was set up without adequate study of the local needs for medical care. A long period of low farm income had resulted in an accumulation of needs for corrective and curative treatment. The volume of needed medical care, especially to lower income families who predominated in the membership, was unexpectedly high.

There was no provision for educational work among the members. Such a program, to progressively raise health standards and increase the understanding of cooperative methods, would have provided a basis for a growing stability of the
program. The communities (trade areas) within the county, with their local
leadership and loyalties, are the logical units to use in such a program. Its
success would depend upon whole hearted participation of the professional people,
the directors, the members, and local agencies.

The county had no public-health nurse, and preventive medicine had scant attention. Thus the public was not made sufficiently health conscious. Whole-hearted support by a local public-health nurse and the organizations and agencies in the county would have helped greatly in establishing a favorable climate for the cooperative health program.

The coverage provided by the program was limited, from the standpoint of the families participating and from the standpoint of the services provided for. Non-farm families in the county (38 percent of the population), were not eligible but only one-third of the farm families joined the Association. This was too small a group. Moreover, it was an abnormal group for the program in that it was made up of high-risk families. The age composition of the member families, in itself, indicates that this was the case. Partly because the local people thought of the program as especially designed for low-income families, the younger and larger families predominated in the membership. More tenants joined the Association than owners. Some doctors discouraged the families of higher income status from joining in the group plan.

Services provided by the program were limited. For example, dental care was limited to emergency treatment and no provision was made for fillings, inlays, or dentures, except for temporary fillings for children. Most of the dental work consisted of extractions and X-Rays.

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Moreover, surgery requiring specialists care or treatment requiring complex laboratory techniques which were not available within the county, were not included. Apparently some surgical care was obtained outside the bounds of the Association, by members, or was postponed because of the restriction of Association services to local surgeons (See figure 4, and page 16). According to available data, limitations on dental care also served to divert or defer such care.

Ideal standards of medical care, also outlined in the Fundamentals of Good Medical Care, permit quantative evaluation of personnel and facilities in Hamilton County. These estimates of standard requirements may be compared with the actucal medical-care resources in the county. The Association program was based upon fee-for-service, the same personnel and hospital facilities serving both members and non-members. Out of a total population of about 8,261 in the county 4/, an average of 2,928 persons were included in member families.

Physicians. - It is estimated that adequate medical care (including prevention, diagnosis, and treatment) requires a ratio of 1 physician to about every 700 persons. On this basis, the 2,028 persons in member families require the services of about 2.9 physicians. Relating the total estimated population of the county to the resident physician (7 in number), shows 1 doctor to 1,170 persons. It is known, however, that doctors in Hamilton County and adjoining counties actually work without reference to the county lines. Moreover, some doctors are older practitioners, and all are not equally able to give full-time service to their communities. It is estimated that the county had only 5, or at most 6, effective doctors, because of the advanced age of some of the practitioners.

It has been estimated 5/ that throughout the U. S. the average number of persons per physician in 1944 was 1,500. If this minimum standard is used, Hamilton County ranks with or somewhat above the Nation in terms of number of doctors. Regarded from the standpoint of well-trained specialists many specialities are not represented in the county but some are available in larger towns and cities of the area.

Dentists. - It is estimated that a group of 2,028 persons would require the full service of 2 dentists. The entire population of the county would require 8 dentists, instead of the 5 resident dentists in 1943. Instead of 1 dentist per thousand population the county has 1 dentist for each 1,650 persons. From an ideal standpoint, three dental hygenists would be required. At least 1 X-Ray technician and 1 dental laboratory technician, would be needed. Thus the county does not have adequate dental facilities, according to the standards of the profession. Dentists outside the county serve many Hamilton County people.

<sup>4/</sup> U. S. Consus Bureau estimates, as of November 1943.

<sup>5/</sup> Public Health Reports, Vol. 58, No. 42, October 14, 1943.

the state of the s  Hospitalization. - It is estimated that an average population requires 1.4 general hospital days annually per person. Assuming an average 80 percent occupancy, such care would require about 38 hospital bods for Hamilton County. The county had 16 beds -- less than half of the standard requirement. On the basis of the average standard requirement, the 2,028 association members and dependents would need more than one-half of the hospital beds now available in the county. 6/

Nurses. - Ideal standard requirements for home-nursing service is 1 nurse to 3,000 persons. Thus 2 or 3 full-time graduate nurses would be required for this service to the 8,261 population in the county. For hospital nursing, 1 full-time nurse to every 4 beds is standard, and the hospital of 16 beds would thus need 4 graduate nurses. Two graduate nurses were employed by the hospital, and no home nursing service was provided by the county or the Association.

Other Services. - Modern medical care utilizes numerous scientific means requiring high technical competence and complex equipment. Laboratory procedures and X-Ray are used for diagnosis and treatment and for physical theraphy, and these require modern equipment and highly trained personnel. Although medical-care resources in Hamilton County compare favorably with many areas of the Great Plains, it is apparent that community cooperation can go further in safe-guarding the health of the people.

<sup>6/</sup> Since the Medical Aid Association was terminated, a larger and better hospital has been equipped. It has 25 adult beds, 6 children's beds, and 7 bassinetts.

# APFENDIX

Volume of medical services of the Hamilton County Medical Association September 1942 - August 1943

Table 1. -

Fhysicians care

Monthly Average	465 2028 380 277 31 45 641 231 231 231 231 231 231 3•7 3•7 39•8
Aug.	1775 2078 277 277 277 105 105 897 897
July	2079 260 261 21 21 2209 2209 40
June	478 285 280 280 280 280 280 280 280 280 280 280
May	477 2076 377 280 35 354 354 666 354 666 354 666 354 666 354 666 887 422
Apr.	177 2076 1422 3322 443 2886 228 886 442 886 442 442
Mar	2076 2076 288 288 774 774 111 685 371 88 887 887
Febr	2076 2076 361 371 374 360 302 302 502 502 503 503 503 503 503 503 503 503 503 503
Jan	168 2045 368 168 35 618 350 510 1951 144
Dec.	2028 2028 2028 308 19 163 163 163 163 163 164 17
Nov.	457 2000 340 274 32 32 32 32 377 276 1715 849
1	1965 1965 280 280 270 270 270 270 270 270 270 270 270 27
Sept.	296 1756 263 246 224 25 19 19 19 1619 726 45
	No. of families No. of persons Total persons served New cases Home calls-day Home calls-night Office calls Miles traveled Hospital calls Deliveries Consultations Other App'd bills Amt. Paid Percent paid

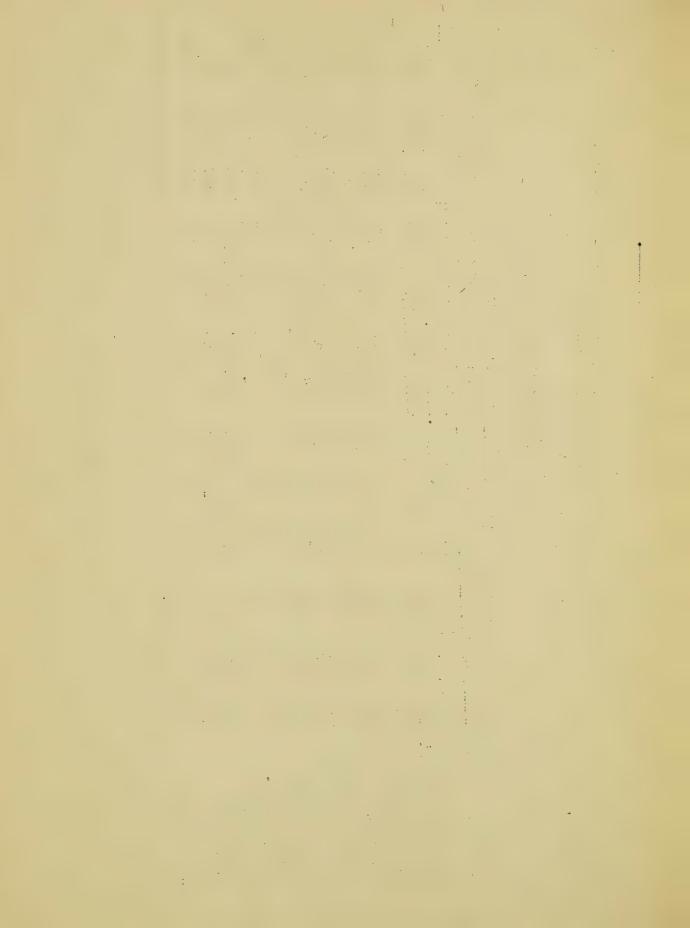


Table 2. -

Volume of modical services of the Hamilton County Medical Aid Association Schember 1942 - August 1943

Surgeons and specialists care

Wonthly Average	1465 2028 592 594 754 754 7592 2535 592 593
Aug.	2079 2079 2079 2070 2070 2070 2070 2070
July	2019 101 101 101 101 101 101 101 101 101
: June	2079 6079 71 1 1 2 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2
91.5 Mey	7500 7500 7500 7500 7500 7500 7500 7500
Apr	2019 2019 2019 2019 2019 2019 2019 2019
Mer	25.25 25.25 25.36 26.36
Febr.	250 250 250 250 250 250 250 250 250 250
. Jan.	2045 111 111 2045 2045 2045 2045 2045 2045
. Dec.	2008 2008 2008 2009 2009 2009 2009 2009
Nov.	2000 2000 2000 2000 2000 2000 2000 200
1942 0ct.	1965 1965 1965 1965 1965 1965 1965 1965
1942 Sept. : Oct.	396 1756 170 170
0000	No. of families No. of persons Total persons served New cases Non-surgical Refractions Ear-Nose-Throat X-Ray Other Surgical Tonsilectomies Appendectomies Fractures Other injuries Gynecological Other App'd bills Ant. Paid Percent paid

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Volume of medical services of the Hamilton County Medical Aid Association September 1942 - August 1943 Table 5.

Dental care

Monthly	465 2028 77-9	12.9 1.1 8.3 7.7 7.7	112 7.5 32.6 18.2 15.3 4.1 68
Aug	478 2079 130	12191	128 25 449 282 45 46 46 46 46 46 46 46 46 46 46 46 46 46
July	478 2079 32 27	00,000	29 100 100 100
June	L78 2079 66 37	dw0/w1	171 24 10 10 282 76
Hay	L77 2076 143 28	919791	28 100 100 100 100
1943 Apr.	477 2076 62 62	517051	63 119 114 126 100 100
Mar	477 2076 88 64,	15504	181 6 28 16 18 - 282 68
Febr.	477 2076 61 46	120 120 170	150 20 116 114 1219 282 888
Jan	168 2045 97 74	202 444	183 40 26 26 277 277 54
Dec	463 2028 98 81	16	150 72 72 274 53
Nov	457 2000 88 82	11 11 19	99 44 270 270 866
1942 0ct.	1965	275-1	132 265 265 265 265 265 265 265 265 265 26
Sept	396 1756 59 59	210111	. 29 (283 (283 (283 (283
	No. Families No. persons Total persons served New cases	Under 15 years Extractions Peridental X-Ray Examinations Prephal Post. Oper.	Extractions Extractions Peridental X-Ray Examinations Prophal Post. Oper. App'd. Bills Amt. Paid Percent paid

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Table 4. -

Volume of Medical services of the Hamilton County Medical Aid Association September 1942 - August 1943

Hospital care

> 0	16.7 16.7 16.7 97.3 97.3 97.3 886 80
Monthly Average	2028 2028 16, 16, 97, 986 880
Aug :	478 2079 23 23 89 118 1403 403 83
June : July: Aug	11/4 11/4 11/4 11/4 11/4 11/4 11/4 11/4
June	478 2079 28 28 28 103 16 16 16 16 72
May	477 2076 111 111 81 6 6 6 7882 3882 100
1943 Apr. : M	114 114 114 114 95 1472 1402 1402 1402 1402 1403
** **	477 2076 116 118 118 402 7
Febr.: Mar.	\$2076 114 114 97 97 97 1402 1402
Jan.	113 113 113 113 5586 595
Dec.	2028 2028 2028 151 151 11 11 3681 57
Nov.	114 124 125 125 125 125 125 125 125 125 125 125
1942 0ct.	1965 1965 20 20 82 378 378 98
Sept. : Oct. : Nov.	296 1756 113 62 62 62 62 62 7
	No. familios No. persons Served New admissions Total days Anchesia Operating room Delivery room Laboratory App'd bills Am't. Peid

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•Table 5. -

Volume of medical services of the Hamilton County Medical Aid Association September 1942 - August 1943

Drugs

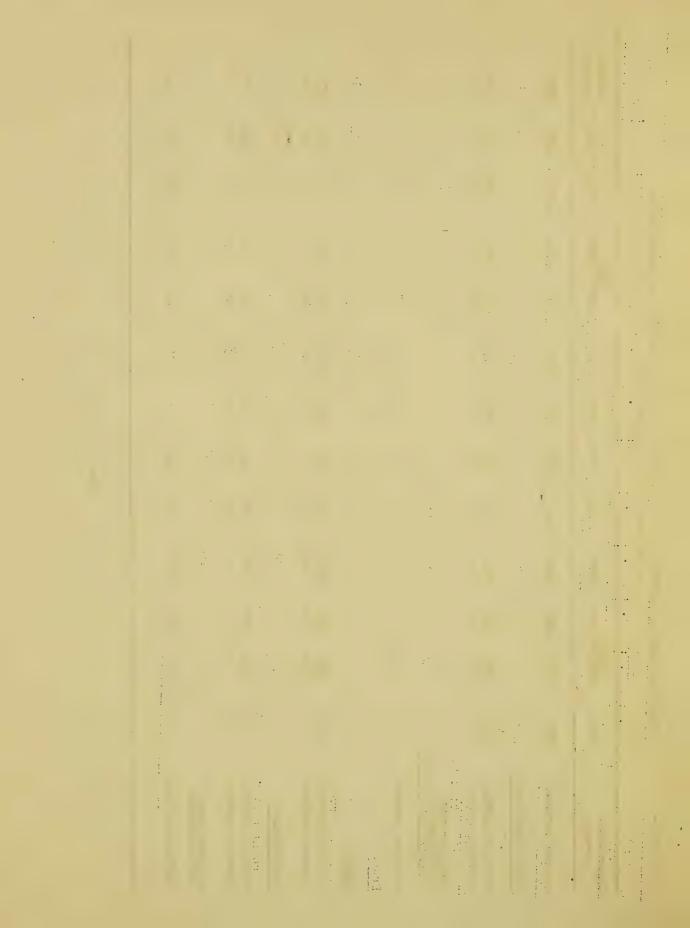
Monthly Average	rζœ	Q	0	9	9
Mic.	202	27	1,30	19	9
egny.	478	268	1413	201	69
July	478	232	354	201	80
· eunf	L78 2079	248	527	201	78
1943 May	477	292	418 3280	201	72
. Apr.	477	325	529 325	201	. 29
Mar	477	238	457	201	09
Febr	477	327	1472	201	69
Jan	1468	333	502	198	63
Dec.	1463	302	505	195	29
Nov.	457	378	423	193	61
1942 0ct.	1965	. 293	1853	189	647
1942 : Sept.: Oct. : Nov.	396 1756	134	215	165	96
	No. femilies No. persons	served	lotal Fre- scriptions App'd bills	Amt. Paid	Percent paid



Table 6. -

Types of medical services of the Hamilton County Medical Aid Association September 1942 - August 1943

Types of Service	. Sept.	1942 00t. Nov		. Dec.	. Jan.	Febr	Febr.: Mar.	Apr	May	1943	: July :	: · Sny	Monthly Average
No. of persons	1756	1965 2000	2000	2028	20/15	2076	2076	2076	2076	2079	2079	2079	2028
Physicians care													
Persons served Percent served	263	358	340	5000	368	316	381	1,22	377	385	360	1448	380 18
Surgeons and Specialists care	2.1												
Persons served	a	rv	77	9		4	23	7	7	9	7	9	7
Drugs													
Persons served Percent served	134	293	278	302	333	327	238	325	262	24.7	232	268	270
Dental care													
Persons served Percent served	59	111	88	98	76	61	88	22	123	99	32	130	2
Hospital care													
Persons served	13	20	174	20	13	177	16	177	Ħ	28	17	23	16



Tuble 7. -

Summary of cast of medical care of the Hamilton County Medical Aid Association Soptember 1942 - August 1943

Approved charges per Fumily	\$6.38 8.27 7.24 9.04	\$8.48 7.76 7.76 7.29 7.42 6.93 9.88
Percent Paid	. 62 51 51 47	50 57 57 57 57 57 57 57 57 57 57 57
Total Amount Paid	\$1,577.50 1,890.91 1,930.87 1,956.24	\$1,977.06 2,014.57 2,014.57 1,998.58 1,918.73 2,017.38 1,862.96 2,027.04
Total Approved Bills	\$2,526.95 3,713.00 3,310.10 4,184.15	\$2,970.00 5,703.10 5,869.54 5,179.00 4,172.35 6,315.50 4,723.25 \$444,506.74
Months	September October November December	January February March May June July Auly August

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Table 8. Age of head by size of family
(53 sample families)

	:	:			Size of	family			
Age Groups	No.	2	3	4	<b>.</b> 5	<b>:</b> 6	7	8	Average
Under 35	16	4	7	1	3	1	_	das	3.37
35 - 44	10	1	. 4	1	-	1	3	-	4.50
45 - 54	12	1	3	3	2	2		1	3.50
55 - 64	5	3	2	**	**	-	_	-	2.40
65 and over	1		1	**	-	-	***	-	3.00
N. A.	9	-	3	3	2		1		4.22
Total	53	9	20	8	7	4	4	1	3.87

Table 9. Age composition of 53 families

Age .	ŧ	Number		: 1	Percent	
Groups	Male	Female	Total	Male	Female	: Total
Under 5	17	10	27	8.4	5.0	13.4
5 - 9	12	12	24	5,9	5.9	11.9
10 - 14	7	15	. 22	3.5	7.4	10.9
15 - 19	11	9	20	5.4	4.4	9.9
20 - 24	2	7	9	1.0	3.5	4.4
25 - 29	11	12	23	5.4	5.9	11.4
30 - 34	4	7	11	2.0	3.5	5.4
35 - 39	4	5	9	2.0	2.5	4.4
40 - 44	5	7	12	2.5	3.5	5.9
45 - 49	. 7	5	12	3.5	2.5	5.9
50 - 54	6	7	13	3.0	3.5	6.4
55 - 59	2 ·	1	3	1.0	• 5	1.5
60 - 64	3	2	5	1.5	1.0	2.5
65 - 69	1	-	1	• 5	66	• 5
70 - 74	44		~	••	-	-
75 and over	-	44	**	~	coh	
N. A.	9	. 2	11	4.4	1.0	5.4
Total	101	101	202	50.0	50.0	100.

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Table 10. Percent distribution of rural farm population 1940 - Hamilton County, Nebraska, and 53 sample families - by age and sex

:	Hami.	iton County, Ne	braska	53 sam	ple families	
	Male	Female	Total	Male	Female	Total
Inder 5	4.2	3.7	7.9	8.4	5.0	13.4
9	4.2	.4.5	8,7	5.9	5.9	11.9
.C - 14	5.6	4.6	10.3	3.5	7.4	10.9
.5 - 19	5,7	4.8	10.5	5.4	4.4	9.9
20 - 24	4.3	3.3	7,6	1.0	3.5	4.4
25 - 29	3.4	3,3	6.7	5.4	5.9	11.4
30 - 34	3.2	2.8	6.1	2.0	3.5	.5.4
5 - 39	3.1	2.9	5.9	2.0	2.5	4.4
0 - 44	2.8	3.7	6.5	2.5	3 <sub>•</sub> 5	5.9
5 - 49	3.5	3.3	6.9	3.5	2.5	5.9
50 - 54	4.1	3.4	7.5	3.0	3.5	6.4
55 - 59	3.4	2.7	6.1	1.0	• 5	1.5
64	1.0	1.6	3.5	1.5	1.0	2.5
55 - 69	1.4	1.2	2.6	• 5	**	• 5
70 - 74	1.0	• 5	1.4	top.	-	-
'5 and over	• 9	. 8	1.7			40
ι. Α.	-	-	-	4.4	1.0	5.4
Total	52.8	47.2	100.	50.0	50.0	100.

Table 11. Net cash income by size of unit, tenure status, and FSA assistance, 53 sample families

	:	: A	Acres in Units						Tenure 2/				
Income Groups			: 100-	200- 299	300 &			P. 0			: FSA :Borrowers		
Minus	2	-	2	•	-	-	••	-	2	400	1		
Less than \$250	12	1	2	6	1	2		1	10	1	7		
\$251 -350	14	1	8	4	•	1	-	2	10	2	5		
\$351 -450	8		3	3	1	1	-	1	6	1	1		
\$451 -550 \$551 and	5	1	3	1	-		*	-	4	1	, 5		
over	12	-	5	3	4	-	1	1	8	2	2		
Total	53	3	23	17	6	4	1	5	40	7	18		

<sup>1/</sup> Not ascertainable

<sup>2/</sup> Owner - O. Part-owner -P.O. Tenant -T.

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Table 12. Net cash income and size of family, (53 sample families)

Size of	:	:	Average		Number of families with incomes of						
family (Persone)	No.	Per Family	Per Person	Zero	Less than \$250	: \$251- : 350	: \$351- : 450	: :\$451- : 550	: :\$551 and : over		
2	9	\$403.67	\$201.84		3	1	3		2		
3 or 4	30	482.20	149.13	1	7	7	4	4	7		
5 or 6	9	281.44	47.79	1	2	4	1	660	1		
7 or more	5	594.20	84.88		· ·	2	eptid	1	2		
Total \	53	\$444.96	\$116.75	2	12	14	8	5	12		

Table 13. Net cash income by gross income (53 sample families)

Net cash	No.	;	Average				
income groups	11/0	: Less chan	; \$600 <b>-</b> ; \$999 :		\$2,000 and : Over		grows cash
Minus Less than	2	-	1	1	-	**	\$825.50
\$250	12	1	7	1	-	3	801.44
\$251-350	14	4	3	2	1	4	893.10
351-450	8	-	5	2	1	**	1122.62
451-550 \$551 and	5		2	1	~~	2	860.33
over	12	**	2	1	2	7	2591.80
Average net							
income		\$254.60	\$311 <b>,</b> 80	\$354 <b>.</b> 75	\$109 <b>7.</b> 00	\$5 <b>53</b> ∙00	
Number	53	5	20	8	4	16	

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Table 14. Value of health services to member families by types of service 53 sample families

	: No.	:	Value o	f ser	vices	in	iolla	rs			
Types of service	families : receiving : service :	Total	: Avorago : per : family	:				: -:30- : 39			
All typos	49	4,554	85.92	4	2	4	4	4	2	10	23
General Practice Surgery Hospital Dentist Drugs	46 4 16 29 41	2,866 328 590 387 383	54.08 6.09 11.13 7.30 7.22	7 47 37 <b>24</b> 12	3 - 2 16 26	7 - 3 7 10	7 - 1 3 3	2 - 2 1	5 6 -	7 1 2 1	15 3 2 2

Table 15. Value of service by amount of family contribution, 53 sample families

Amount of	: : F	amilios	:	Value of service in dollars								
family contribution	No.	: Percen	t; Averag		or		:58-			:151-:	200/	
\$10	7	13.2	76		-	2	2	1	2	~	_	
11 - 20	18	34.0	118	1	1	3	2	2	2	4	3	
21 - 30	13	24.5	67	1	1	4	2	2	3	**	****	
31 - 40	6	11.3	32	2	1	2		-	1	***	***	
41 - 50	3	5.7	44		2			-	1	**	-	
51 - 57	6	11.3	118	•••	1	1	2	-	••	1	1	
All families	53	100.	86	4	6	12	8	5	9	5	4	

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Table 16. General practice health services by amount of contribution, 53 sample families

Amount: of:	No.	No.	*		Value of	f ser	vice	in do	llar	5	
family: contrict bution:	o <b>f</b> familio:	families receiving service	Average		:10 or:						Over 100
10	7	7	65	-	-	2	-	1	1	1	2
11-20	18	17	72	1		4	3	3	**	1	6
21-30	13	10	42	3	***	2	1	2	3	1	1
31-40	6	4	26	2	1	***	2	***	**	1	***
41-50	3	2	32	1	1	ada		-	<del>,</del>	1	- tea
51-57	6	6	54	-	1	1	1	1	1	1	1
All											
families	s 53	46	54	7	3	3	7	7	5	5	10

Table 17. Surgical service by amount of contributions,

Amount: of:	No.	: No.	:	Sample			sorvi	co in	dollar	rs.		
family: contri:fa bution:	of	: familios s:roceiving		sor-	:10- :or :loss	:11-		: 41			-	
10	7	<b>→</b>	-	7	<b>→</b> .,	**	PND	MIL.	C. 3	_		. ,
11-20	18	2	9	16	-	-	-	ware	1	1	w.1	69.1
21-30	13	446	•	13	1049		-	-	cup.	-		Anopt
31-40	6 .	-	-	6	-	140	-	-	-	MR-	resp	400
41-50	3	44		3	-	***	· 🛶	-	000	-	-	ma .
51-57	6	2	28	4			-	2000	1	1	-	***
All families	53	4	6	47	-	-		-	2	2		448

Table 18. Hospital service by amount of contribution 53 Sample families

Amount:	No.		amilies	:	Va	luo d	of so	rvi	eo in	dolla	ars		
family :	of	: r	cciving	:	: No	: 10	:11-	:	:	:	: :	:	
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11-20	18	7	43.8	19	11	1	mip.	2	2	-	2		oles .
21-30	13	5	31.2	10	8	1	1	3	•	-		-	600
31-40	6	-	-	~	6	-	*	e#k		440	nate	-	-
41-50	3	1	6.2	4	2	-	1	-	-	•••	100		-
51-57	6	2	12.5	16	4		-	-	2		_	-	-
All													
families	53	16	100.	11	37	3	2	5	4		2	-	***

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# UNITED STATES DEPARTMENT OR AGRICULTURE FARM SECURITY ADMINISTRATION

## Dear Friend:

Rural people are increasingly interested in health problems. You have had personal experience in an organized program of rural medical care. For that reason we are asking a favor of you. We need information about your medical care experience, in the calendar year, 1944. Please furnish to the best of your knowledge the following information, and return at once in the self addressed envelop. It will not be necessary to sign the report. Thank you.

For the Year January 1, 1944 to December 31, 1944

No. in Age * Family	Cost of Major Operations	General	Cost of Drugs	
0 - 5	\$	\$	\$	\$ \$
6 -12	\$	\$	\$	\$ \$
13-21	\$	\$	\$	\$ \$
22-50	\$	\$	\$	\$ \$
51-over	\$	\$	\$	\$ \$
Total	\$	\$	\$	\$ \$
Amount of Total Yet to be Paid	Ü	\$	\$	\$ \$

\*A Femily includes all persons you are financially responsible for, whether at home or away.

Signed				
	County	FSA	Superviso	or

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# HAMILTON COUNTY HEALTH ASSOCIATION SURVEY (The Period Sept. 1942 to Aug. 1943 Inclusive)

Nam	eCommunity
	Who persuaded you to join the Association?  Person Organization  Did you change doctors when joining the association?
2.	Did you change doctors when joining the association?
3.	Who was your doctor when in the association?
	How often did you go to another doctor?
4.	Where did you go for hospital care before you joined the association?
	44
	None Aurora Other (Name of town)
5.	How many meetings held by the association did you attend?
6.	Were medical services given promptly? Explain
7.	How did the quality of services you received compare with those you were
6	
	(a) Poorer (b) The same (c) Better
8.	(a) Poorer (b) The same (c) Better Did you receive as much medical care as you expected to receive?
9.	What other services did you think the association should have given?
	$\binom{1}{3}$ $\binom{2}{4}$
10-	What changes should have been made in the association?
	(1) In services rendered
	(2) In financing
11.	Did members have enough voice in running the association
12.	Who ran the program?
13.	What part did you have in helping to plan and develop the program?
10.	may part did you have in horping to prair and develop one program.
14.	Do you think the association should have reached more people?
15.	What was your chief difficulty in securing medical care under the program?
	mind had your office desired and the propriet
20	
16.	What was the chief advantage or benefit you received from the association?
17.	What do you think was the chief purpose of the program?
10	Weg the money you nut into the plan a good ingreetment?
18.	Was the money you put into the plan a good investment?

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